

# ROAD CLOSURE GATE PIVOT ASSEMBLY

NOTES:

SEE DTL. DWG. NO. 617-06 FOR PIVOT ASSEMBLY DETAILS.

MOUNTING HEIGHT (H) WILL BE SHOWN IN THE PLANS OR SPECIFIED BY THE ENGINEER TO PROVIDE FOR THE PROPER HEIGHT OF THE GATE ABOVE THE ROADWAY.

ALL BOLTS DESIGNATED H.S. (HIGH STRENGTH) ARE TO CONFORM TO ASTM A 325. AFTER ROAD CLOSURE GATE ASSEMBLY, PAINT ALL EXPOSED BOLT THREADS OR DAMAGE TO THE GALVANIZING WITH TWO COATS OF ZINC RICH PAINT CONFORMING TO ASTM A 780.

- \* SUPPLY WORM GEAR WINCH AND CABLE FROM DUTTON LAINSON (STOCK NUMBER 4Z183), OR EQUIVALENT.
- \*\* WHEN THE GATE IS FULLY RAISED, PLACE THE NUT AND WASHER SNUGLY AGAINST THE OUTSIDE OF THE REAR CHANNEL AND PADLOCK IN PLACE. SUPPLY ONE HEAVY, WEATHERPROOF PADLOCK WITH 2 KEYS FOR EACH GATE ARM PIVOT. KEY PAIRED PIVOTS (DIVIDED HIGHWAY INSTALLATION) ALIKE.

# DETAILED DRAWING

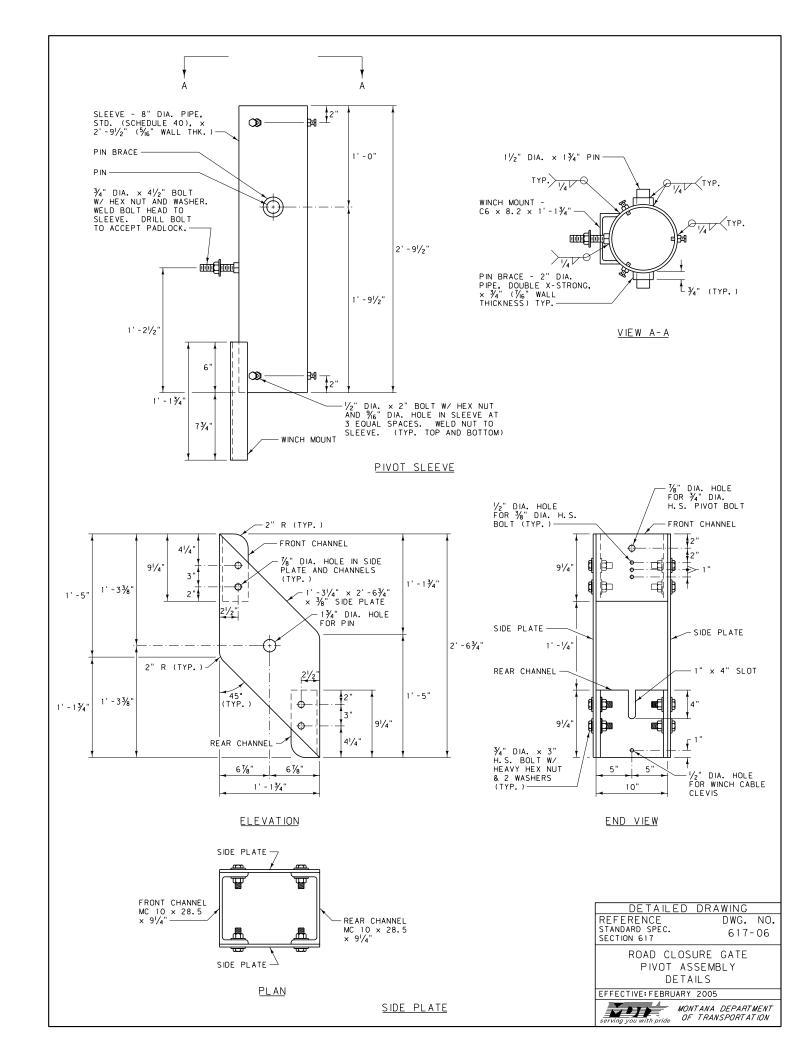
REFERENCE STANDARD SPEC. SECTION 617 DWG. NO. 617-04

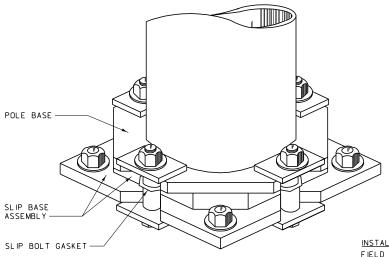
ROAD CLOSURE GATE PIVOT ASSEMBLY

EFFECTIVE: FEBRUARY 2005



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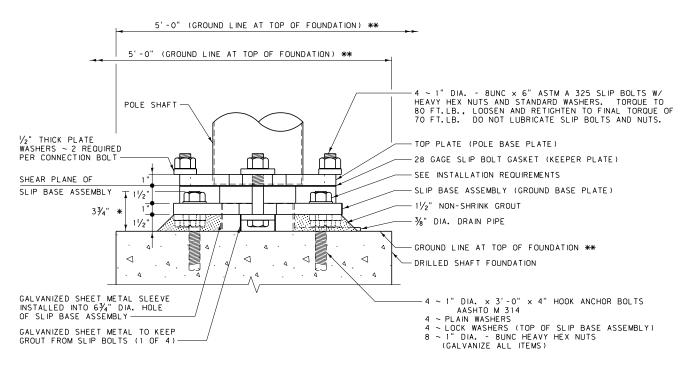


\* TOP OF ANCHOR BOLTS MUST BE BELOW SHEAR PLANE.

\*\*\* IT IS CRITICAL THAT THE GROUND SURROUNDING THE CONCRETE FOUNDATION BE GRADED AND CONTOURED TO PREVENT VEHICLE UNDERCARRIAGE SNAGGING. ALL POINTS ON THE GROUND SURFACE ARE TO BE AT THE TOP OF THE FOUNDATION WITHIN ANY 5'-O" HORIZONTAL DISTANCE EXTENDING OVER THE SLIP BASE AS SHOWN, AND ALIGNING PERPENDICULAR TO THE ROADWAY CENTERLINE OR ON A RADIAL LINE FOR A CURVED ROADWAY.

ISOMETRIC VIEW

INSTALLATION REQUIREMENTS FOR TOP NUTS OF ANCHOR BOLTS FIELD LUBRICATE BEARING FACE AND THREADS OF TOP ANCHOR BOLT NUTS WITH A STICK WAX. TIGHTEN TOP NUTS TO SNUGTIGHT. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE GROUND BASE PLATE IS IN FIRM CONTACT WITH THE TOP AND BOTTOM NUTS, AND IS ATTAINED BY THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. AFTER THE SNUGTIGHT CONDITION IS ATTAINED, ROTATE THE TOP NUTS AN ADDITIONAL 45° (+20°,-0°).



### FOUR BOLT SLIP BASE

#### NOTES:

SEE DTL. DWG. NO. 617-10 FOR FOUR BOLT SLIP BASE DETAILS AND DRILLED SHAFT FOUNDATION.

CONFORM SLIP BOLT GASKET (KEEPER PLATE) TO ASTM A 653 GRADE 33 WITH COATING ASTM G 90.

CONFORM ALL PLATES TO ASTM A 709 (GRADE 36) OR AASHTO M 270.

GALVANIZE ALL STRUCTURAL STEEL AFTER FABRICATION ACCORDING TO ASTM A 123. ALL CONTACT AREAS OF STRUCTURAL STEEL ARE TO BE FREE OF GALVANIZING BEADS AND RUNS.

ELECTRO-PLATE ALL CONNECTING HARDWARE (HIGH STRENGTH BOLTS, HEAVY HEX NUTS AND STD. WASHERS) WITH CADMIUM IN ACCORDANCE WITH ASTM B 766 CLASS 12.

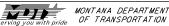
DO NOT ENCLOSE ANY SLIP BOLT HEADS OR WASHERS IN GROUT AND KEEP THEM COMPLETELY MECHANICALLY ACCESSIBLE, ALLOWING BOLTS TO BE FREELY PUSHED OUT DURING VEHICLE IMPACT.

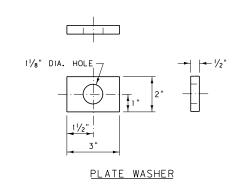
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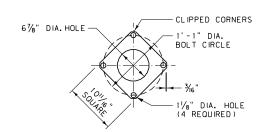
REFERENCE STANDARD SPEC. SECTION 617 DWG. NO. 617-08

FOUR BOLT SLIP BASE

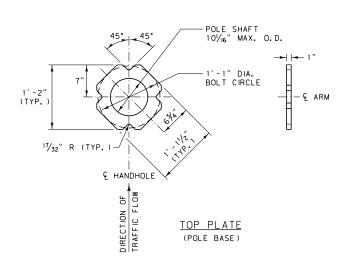
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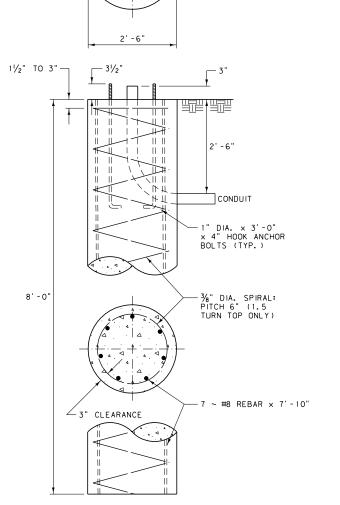






SLIP BOLT GASKET (KEEPER PLATE)



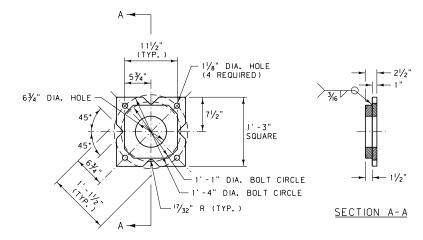


BOLT CIRCLE AS PER POLE SUPPLIER'S SHOP DRAWINGS

ANCHOR BOLTS, AS PER POLE SUPPLIER'S SHOP DRAWINGS

CONDUIT

DRILLED SHAFT FOUNDATION
(LUMINAIRE POLE)



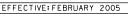
SLIP BASE ASSEMBLY (GROUND BASE PLATE)

DETAILED DRAWING

REFERENCE STANDARD SPEC. SECTION 617

DWG. NO. 617-10

FOUR BOLT SLIP BASE DETAILS





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